WHAT IS CLAIMED IS:

- 1. An inner panel comprising:
 - an opening to which a loudspeaker unit is attached;
- a volume unit in which the loudspeaker unit is housed from the opening to form a closed space; and
 - a groove passing through to the volume unit.
- 2. The inner panel according to claim 1, wherein the groove is covered with a lid such that an end portion of the groove is open.
 - 3. The inner panel according to claim 2, wherein a fixing unit for fixing a wire harness of the loudspeaker unit is attached to the lid.
- 15 4. A loudspeaker apparatus in which a loudspeaker unit is attached to an inner panel, wherein

the inner panel comprises:

an opening to which the loudspeaker unit is attached;

a volume unit in which the loudspeaker unit is housed from the opening to form a closed space; and

a groove passing through to the volume unit,

the loudspeaker unit is housed in the volume unit, and

a rear space of the loudspeaker unit in the volume unit is used as an acoustic volume unit of the loudspeaker unit.

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5. The loudspeaker apparatus according to claim 4, wherein the groove is covered with a lid such that an end portion of the groove is open.

- 6. The loudspeaker apparatus according to claim 5, wherein a frame portion of the loudspeaker unit puts a lid such that the end portion is open.
- 7. The loudspeaker apparatus according to claim 5, wherein a Helmholtz resonance is generated by an acoustic mass constituted by an inner space of the groove and a volume held by the acoustic volume unit.
- 10 8. The loudspeaker apparatus according to claim 6, wherein a Helmholtz resonance is generated by an acoustic mass constituted by an inner space of the groove and a volume held by the acoustic volume unit.
- 9. The loudspeaker apparatus according to claim 5, wherein a fixing unit for fixing a wire harness of the loudspeaker unit is attached to the lid.
 - 10. The loudspeaker apparatus according to claim 6, wherein a fixing unit for fixing a wire harness of the loudspeaker unit is attached to the lid.
- 20 11. The loudspeaker apparatus according to claim 7, wherein a fixing unit for fixing a wire harness of the loudspeaker unit is attached to the lid.
 - 12. The loudspeaker apparatus according to claim 8, wherein a fixing unit for fixing a wire harness of the loudspeaker unit is attached to the lid.

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